Alpha-olefin polymerisation process

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Abstract

A method of polymerization of alpha-olefins using a catalytic system comprising a catalytic complex based on a metal from Groups 6-12 of the Periodic Table, a specified trialkylaluminum and a specified organoaluminum compound. A method of polymerization of alpha-olefins using a catalytic system comprising a catalytic complex based on a metal from Groups 6-12 of the Periodic Table, a specified trialkylaluminum and a specified organoaluminum compound. The trialkylaluminum compound is of Formula AlR3 (Ia): R = 1-12C alkyl. The organoaluminum compound is of Formula RnAlY3-n (Ib): n = 1, 2; Y = group of formula -GRa or -G'(Rb)p(Rc)2-p; G = Group 16 element; G' = Group 15 element; Ra = halogenated alkyl, optionally halogenated aromatic hydrocarbon or hetero hydrocarbon, alkenyl, a group of formula -B(Rd)m (OAlRe2)2-m; Rd = hydrocarbon; Re = 1-12C alkyl; m = 0-2; Rb = optionally halogenated alkyl, optionally halogenated aromatic hydrocarbon or hetero hydrocarbon, alkenyl, a group of formula Al(Rf)2; Rf = 1-12C alkyl; Rc = H, optionally halogenated alkyl, optionally halogenated aromatic hydrocarbon or hetero hydrocarbon, a group of formula Al(Rh)2; Rh = 1-12C alkyl; p = 0-2.